

# Bridgeport Harbor

Bridgeport, Connecticut



**US Army Corps  
of Engineers**  
New England Division

## ABSTRACT

This coastal inventory was conducted by the U.S. Army, Corps of Engineers, New England Division, at the request of the Connecticut Department of Environmental Protection. This report is in support of the Department's continuing effort to inventory all existing shoreline and nearshore structures along the Connecticut coast and presents a comprehensive picture of conditions in Bridgeport Harbor as verified by field inspections in August 1985.

For Federal, State and local planners this report provides information from a variety of sources in a single volume. In addition to listing coastal and nearshore structures, this report also presents detailed information on the use, condition, ownership and general construction of coastal structures, as well as a listing of Federal and State projects in the immediate area.

BRIDGEPORT HARBOR & VICINITY  
BRIDGEPORT, CONNECTICUT

Planning Assistance Report  
COASTAL STRUCTURES INVENTORY

Department of the Army  
New England Division, Corps of Engineers  
Waltham, Massachusetts

December 1985

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Coastal Structures Inventory  
Bridgeport Harbor  
Bridgeport, Connecticut

Introduction - The Connecticut Coastal Management Act of 1978 (CCMA) established a comprehensive coastal resource management program in Connecticut that is administered jointly at the municipal and State level. The Connecticut Department of Environmental Protection, which is the primary state permitting agency for both public and private coastal development, is the lead agency for overall implementation of the Coast Management Program (CMP). The coastal municipalities locally enforce the various policies and standards of the CMP with assistance and guidance from the State. Comprehensive coastal planning and technical research and investigation are conducted by the Department of Environmental Protection. This inventory report is in support of the Department's continuing effort to inventory all existing shoreline and nearshore structures along the Connecticut coast.

Study Authority - This report was initiated by the New England Division of the U.S. Army Corps of Engineers at the request of the Connecticut Department of Environmental Protection. It was prepared under the provisions of Section 22 of the Water Resources Development Act of 1974, Public Law 93-251, as amended.

Purpose of the Report - The purpose of this report is to inventory existing shoreline and shallow-water structures in the Bridgeport Harbor area noting location and function. It also identifies navigational, recreational and support facilities in the harbor area.

Location and General Description - Bridgeport Harbor is located on the northern shore of Long Island Sound, about 52 nautical miles northeast of New York City and 25 nautical miles southwest of New Haven, Connecticut. The port area of Bridgeport consists of two separate harbors, Bridgeport Harbor and Black Rock Harbor; the harbors are about two miles apart and are within the city limits of Bridgeport.

Bridgeport Harbor includes the navigable portions of the Pequonnock River, Yellow Mill Channel, and Johnson's River (Creek), and is divided into an Outer and Inner Harbor. The Outer Harbor is entered from Long Island Sound between two converging breakwaters. It is about three-fourths of a mile wide in an east and west direction between Pleasure Beach on the east and Seaside Park on the west and extends from the opening between the breakwaters north to Tongue Point, a distance of about one mile. The Inner Harbor is separated from the Outer Harbor by Tongue Point on the west and Pleasure Beach on the east. It is generally triangular in shape, about one-half mile wide at the lower end, and extends in a northwesterly direction to the mouth of the Pequonnock River. The Inner Harbor has three tributaries: Pequonnock River entering from the north and Yellow Mill Channel and Johnson's River (Creek) from the northeast. A

dredged, 35-foot channel extends from deep water in Long Island Sound to the mouth of the Pequonnock River. Eighteen-foot channels extend along the navigable portions of the Pequonnock River and Yellow Mill Channel and a 15-foot channel serves the facilities at the mouth of Johnson's River (Creek).

Black Rock Harbor is about two miles west of Bridgeport Harbor, between the mainland and Fayerweather Island. The harbor proper is about one mile long, 2,500 feet wide at its outer end, and 250 feet wide at its head. Cedar Creek extends from the head of Black Rock Harbor in a northeasterly direction for a distance of about three-fourths of a mile and divides into the East Branch and West Branch. Burr Creek is a cove extending northward from Black Rock Harbor. A channel 18 feet deep has been dredged from deep water in Long Island Sound through the full length of Black Rock Harbor and Cedar Creek and its two branches.

Existing Land Uses. Land use in the Main Harbor, in areas immediately adjacent to water, are predominantly industrial, utility-transportation, and recreational. Land use along Black Rock Channel is generally residential in nature with scattered areas of recreational, utility-transportation and industrial uses.

Land use in the Inner Harbor on the western side consists of wharves, light and heavy industry and an electrical power plant site. The eastern side of the Inner Harbor has similar land uses to the western side, however, there are more residential and commercial activities present. Land use along the Pequonnock River consists of railroads, junkyards, gas storage, and industrial uses. Steel Point contains many wharves, light industry, and an electric power plant. Land use along Yellow Mill Channel is predominantly industrial, but a small park is located along the northwest shore. The entrance to Johnson's Creek is composed of Pleasure Beach, a park, and Great Meadows Tidal Marshland. Great Meadows is a coastal wetlands area of high ecological value. Land use further up the Creek is mostly oil handling facilities mixed with small craft anchorages and light industry.

Land use along Black Rock Channel is primarily residential with interspersed parks. Seaside Park runs the entire length of land separating Long Island Sound from Cedar Creek. A thin strip of land immediately fronting Cedar Creek and adjacent to the park was used for sanitary landfill. The northernmost reaches of Cedar Creek are used by industrial firms.

Properties adjacent to the Main Harbor are presently zoned industrial. Seaside Park is unzoned. Lands along Black Rock Channel are zoned primarily residential, with industrial zoning at the northern reach of the channel. Great Meadows is also zoned industrial.

There are major park properties adjacent to Long Island Sound and the harbor channels. Seaside Park and Pleasure Beach, fronting the Sound, are

important recreational sites for area residents. Attendance at these parks during the summer season exceeds 2 million people. Other parks adjacent to the water bodies include St. Mary's by the Sea, Seabright Avenue Lot, Wordin Park, Ellsworth Street Playground, and Waterview Park.

#### Historical and Archaeological Resources

Although the shoreline of tidal estuaries in and around Bridgeport was probably intensively occupied by Indians throughout prehistoric times and into the 17th century, development of the modern city has probably obliterated most of these sites. The only extensive coastal area where prehistoric archaeological remains may exist is at Great Meadows in Stratford, along the tidal marshes of Lewis Gut. Although there are no recorded sites in this area, this is perhaps due to lack of systematic archaeological survey rather than their actual absence.

Most of the Bridgeport waterfront is late 19th and 20th century in appearance. The major exception to this is the Black Rock National Register District, which is composed largely of early to mid-19th century homes, as well as two 18th century dwellings.

There are two other National Register Districts along Bridgeport's waterfront: Seaside Park and Marina Park. The former is a mid-19th to early 20th century public park, portions of which were designed by Frederick Law Olmstead. The park includes Fayerweather Island Light (1832). Much of the property for this park was donated by P. T. Barnum, who was also involved in the development of Marina Park, just inland from the oldest portion of Seaside Park. Marina Park, unlike Seaside, is a residential development encompassing the mansions of Bridgeport's late 19th century industrialists, as well as an adjoining turn of the century suburban area of more modest homes.

A number of industrial structures near the waterfront reflect Bridgeport's manufacturing heritage. While none of these have been placed on the National Register of Historic Places, many are doubtless eligible for listing:

Armstrong Mfg. Co. (1872), 337 and 286 Knowlton St.  
Pacific Iron Works (1875) on Pequonnock River at Arctic St.  
Eaton, Cole, & Burnham Factory (1825), 510 Main St.

Potentially significant transportation oriented structures on the harbor include:

Fayerweather I. Light (1832)  
Inner Harbor Light "Buglight" (1891), on Tongue Pt.  
Pequonnock River Bascule Railroad Bridge (1902)  
Pleasure Beach Swing Bridge (1908)

Black Rock Harbor was a major Connecticut port in the 18th century, but was eclipsed by main harbor of Bridgeport during the last half of the 19th century. The earliest recorded vessel loss in the area was the 326 ton paddle steamer "Alice", which burned on 22 July 1852. Twenty vessels were lost in the vicinity of Bridgeport Harbor over the next century. Most were barges which foundered in rough weather on the Sound. Several others, primarily steam vessels, burned while moored at wharves, and were removed as navigation obstructions. A few may remain on the bottom within or near the inner harbor: Cleary Brothers barge #29 sunk near the east breakwater in 1945, and Red Star barge #57 foundered in a storm nearby in 1966. Three other barges, "Berkshire #7", "Priscilla Daily", and "Elmer St. Daily" sank at their moorings in the winter of 1974-75 south of the Stratford Avenue Bridge over the Pequonnock River. All three were of "canal boat" design, built between 1915-35, and have been placed on the National Register of Historic Places. There is a slight possibility that other unrecorded or incompletely reported vessels which could be National Register eligible, such as early steamers, may remain on the bottom in good condition in areas away from the present Federal Channel.

Bridges. Detailed information on bridges crossing the various waterways within Bridgeport Harbor can be found on Table 1.

**Table 1**  
**Bridgeport Harbor Area**  
**List of Bridges**

Miles Above Mouth	Name	Type	Clearances (Feet)		Purpose For Which Used	Completed
			Horizontal	Vertical At MHW		
<u>Head of Inner Harbor</u>						
1.7 (1)	Connecticut Turnpike, I-95	High-level, fixed	150	65	Highway	1954
<u>Pequonnock River</u>						
0.1	Stratford Avenue	Bascule	135	7(2)	Highway	1919
0.3	Consolidated Rail Corp. (Conrail)	do.	70	18(2)	Railroad	1896
0.4	Congress Street	do.	67	8(2)	Highway	1922
0.6	East Washington Avenue	do.	69	4(2)	Do.	1925
0.9	Grand Street	do.	71	13(2)	Do.	1918
<u>Yellow Mill Channel</u>						
0.3	Stratford Avenue	Bascule	82	11(2)	Highway	1926
0.4	Connecticut Turnpike, I-95	High-level, fixed	100	40	Do.	1955
<u>Johnson's Creek</u>						
0.0	Pleasure Beach	Swing	70	7	Highway	1924

- (1) Distance from entrance to Bridgeport Outer Harbor  
(2) Closed position



### Existing Federal Navigation Project.

The existing Federal navigation project in Bridgeport Harbor is shown on the Project Map, Figure 1. It was adopted on 4 July 1836, and modified a number of times, the latest being 3 July 1958. A description of the improvements as of 30 September 1976 is as follows. All depths refer to mean low water. The existing Federal project consists of:

- a. A main channel 35 feet deep at mean low water, 400 feet wide, extending from Long Island Sound to Tongue Point, widening to approximately 600 feet at the bend opposite Cilco Terminal, and narrowing to 300 feet at the lower end of the Pequonnock River Channel at a point 800 feet below the Stratford Avenue Bridge, a distance of about 3.5 miles, and a turning basin 35 feet deep southeast of Cilco Terminal.
- b. A 2-acre anchorage area with a depth of 6 feet at the head of Johnson's River, between the existing Federal channel and Hollister's Dam.
- c. A 2.4 acre anchorage area with a depth of 9 feet and a 0.6 acre anchorage with a depth of 6 feet in Johnson's River, these areas to be provided partially by dredging and partially by reducing the width of the existing Federal channel opposite and north of the present Miamogue Yacht Club.
- d. Two riprap breakwaters, one 3,823 feet long on the easterly side and one 2,110 feet long on the westerly side of the entrance to the main harbor.
- e. The construction and maintenance of shore protection on Fayerweather Island, including a seawall connecting the northerly and southerly portions of the island.
- f. Two anchorage basins: One 25 feet deep and 23 acres in area, opposite Tongue Point; one 18 feet deep and 29 acres in area, adjoining the main channel on the west above Tongue River.
- g. Pequonnock River Channel, 18 feet deep and from 125 to 200 feet wide from the lower bridge to a point about 500 feet below the dam at Berkshire Avenue, for a distance of about 1.1 miles.
- h. Yellow Mill Pond Channel, 18 feet deep and 150 to 200 feet wide from the 35-foot channel to a point about 360 feet from Crescent Avenue, for a distance of about one mile.
- i. Johnson's River Channel, 15 feet deep and generally 200 feet wide from the 25 foot anchorage to a point 1,700 feet below Holliston Dam, thence 9 feet deep and 100 feet wide to a point about 600 feet below Hollister's Dam, for a distance of about one mile.

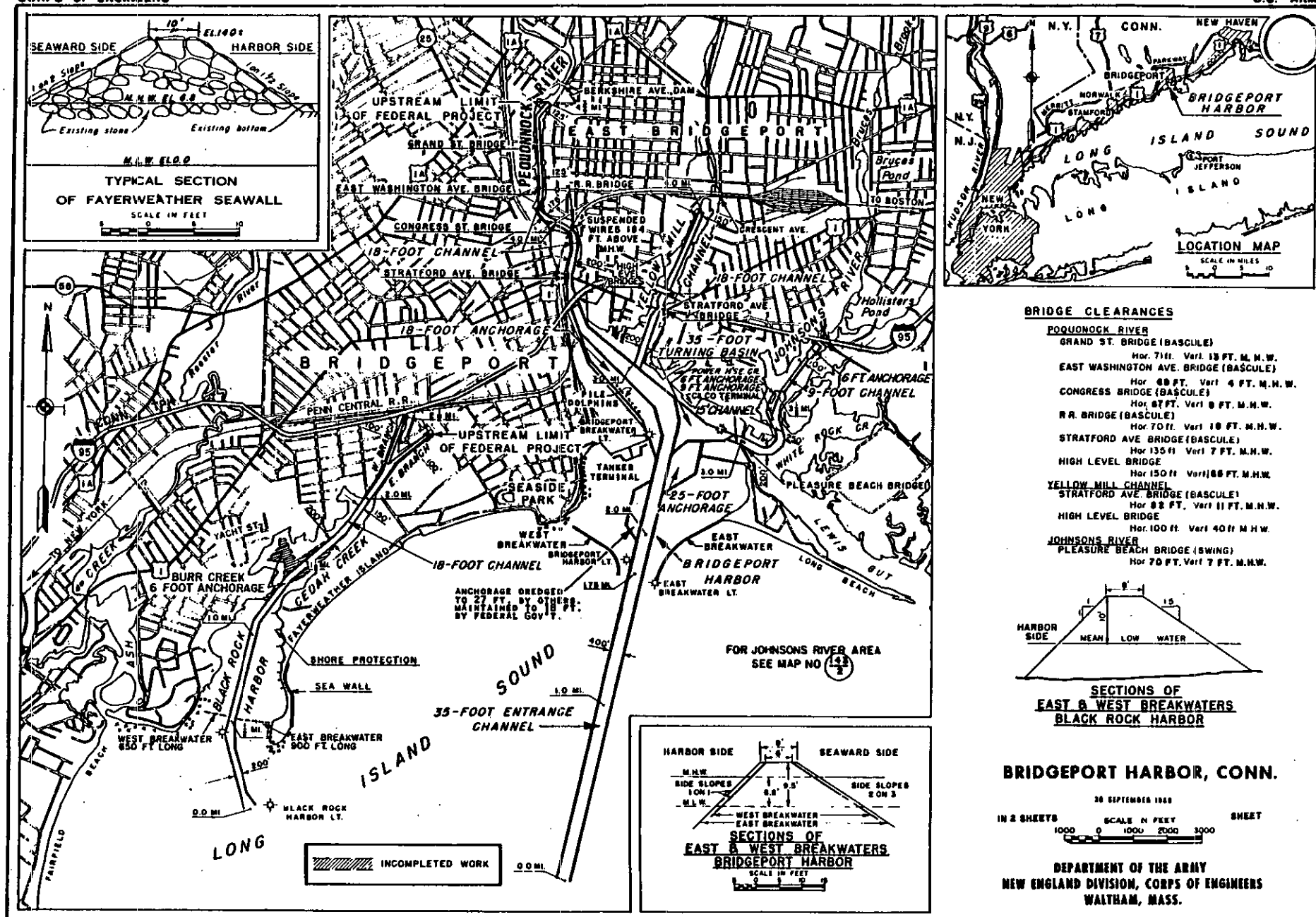


FIGURE 1

- j. Black Rock Harbor and Cedar Creek Channel, 18 feet deep and 100 to 200 feet wide from the 18 foot contour in Black Rock Harbor to the heads of both branches of Cedar Creek, for a distance of about 2.4 miles.

Existing Federal Beach Erosion Projects.

There is an existing Federal beach erosion project at Jennings Beach in Fairfield, Connecticut, adjacent to and south of Ash Creek. It was adopted on 17 May 1950. The project provides for Federal participation in the amount of one-third the first cost of construction of an impermeable jetty 800 feet long, extending southeasterly from the westerly side of the mouth of Ash Creek, and if necessary, the dredging of an inlet channel and jetty foundation through the outer bar. The jetty was completed in 1951 by local interests. No channel dredging was necessary at that time. The one-third Federal share of \$14,401 was reimbursed to the State and town of Fairfield during FY 1956. The project is considered to be complete.

There is also a Federal beach erosion project at Seaside Park on Fayerweather Island, Bridgeport. The project was adopted on 2 September 1954, and provides for Federal participation in the amount of one-third of the first cost of widening the beach to a general width of 125 feet, by direct placement of sand material for approximately 8,800 feet along the shoreline. The project was completed with dredged channel materials in April, 1957 by the State of Connecticut. The one-third Federal share of \$150,000 was reimbursed to the State of Connecticut in February, 1958.

# SUMMARY OF PORT FACILITIES AND STRUCTURES

COASTAL  
INVENTORY  
REFERENCE  
NUMBER

OPERATOR

FACILITY

## MAJOR PORT FACILITIES AND STRUCTURES

1	Carnet Company	Wharf
2	Connecticut Petroleum Wholesale	Bridgeport Terminal Wharf
3	Martin Marietta	Wharf
4	Hi-Ho Petroleum	Bridgeport Terminal Wharf
5	Inland Fuel Terminals	Bridgeport Wharf
6	Sikorsky Aircraft	Wharf
7	United Illuminating Co.	Fuel Oil Dock
8	United Illuminating Co.	Coal Dock
9	United Illuminating Co.	Barge Dock
10	Bridgeport & Port Jefferson Steamboat Co.	Union Square Dock
11	Hoffman Fuel	Wharf
12	United Illuminating Co.	Fuel Dock
13	Ocean Fish Co.	Pier
14	Tallmadge Brothers	Pier
15	Hitchcock Gas Engine Co.	West Pier
16	Hitchcock Gas Engine Co.	East Pier
17	Jacob Brothers	Wharf
18	D'Addario Industries	Wharf
19	Cilco Terminal	Wharf
20	Shell Oil Co.	Bridgeport Terminal Dock
21	Century Resources Co.	Bridgeport Terminal Dock

## OTHER FACILITIES AND STRUCTURES

22	Kaye Williams	Dock
23	Bridgeport Parks & Recreation	Fishing Pier
24	Connecticut Resources Recovery Authority	Bulkhead
25	J. J. Spall	Pier
26	O & G Industries	Bulkhead
27	Dudas/Williams	Bulkhead
28	City of Bridgeport	Boat Ramp
29	City of Bridgeport	Municipal Marina
30	Cedar Boat Ways	Marina
31	Pequonnock Yacht Club	Marina/Launch Ramp
32	City of Bridgeport/Waterfront Park	Dock/Marina
33	Riverside Marine	Marina
34	City of Bridgeport	Dolphins
35	Miamogue Yacht Club	Marina
36	East End Yacht Club	Marina
37	City of Bridgeport	Pier/Bulkhead/Seawall
38	Parsell/Desrosiers Marina	Marina
39	Bill's Boat Basin	Marina
40	Speer's Boatyard	Bulkhead
41-54	Debris & Abandoned Structures	

**DETAILED LIST OF COASTAL STRUCTURES**

REFERENCE NUMBER	1
FACILITY	Carmet Co. Wharf
LOCATION ON WATERFRONT	Black Rock Harbor 200 feet below foot of Morris St. extended 126 Bostwick Ave.
OWNER	Fairfield Scrap Iron & Metal Co.
OPERATOR	Fairfield Scrap Iron & Metal Co.
USE	Shipment of Scrap Metal by Barge
CONSTRUCTION TYPE	Steel sheet pile bulkhead with solid fill
DESCRIPTION	100 ft. face Depth alongside at MLW 11-18 ft. One 40 ton diesel crawler crane with 60 ft. boom
REMARKS	Approximately 10,750 square feet of open storage area located at rear.
REFERENCE NUMBER	2
FACILITY	Connecticut Petroleum Bridgeport Terminal Wharf
LOCATION ON WATERFRONT	Black Rock Harbor 670 Wordin Ave.
OWNER	Connecticut Petroleum Wholesale
OPERATOR	Connecticut Petroleum Wholesale
USE	Receipt of Petroleum Products by Barge
CONSTRUCTION TYPE	Timber bulkhead, solid fill, with timber pile extension
DESCRIPTION	455 foot face Depth alongside 12-14 feet MLW Load capacity is 400 lbs. per square foot One surface track connects to Conrail 220 volt AC electrical service
REMARKS	Two 8-inch pipelines extend from face of wharf to 5 steel storage tanks with 36,650 barrel capacity.

REFERENCE NUMBER	3
FACILITY	Martin Marietta Corp. Wharf
LOCATION ON WATERFRONT	Black Rock Harbor West Side of West Branch 524 Wordin Ave.
OWNER	Martin Marietta Corp.
OPERATOR	Not Operated
USE	Not in Use
CONSTRUCTION TYPE	Timber bulkhead, solid fill with timber pile extension
DESCRIPTION	160 foot face Depth alongside at MLW is 8 feet Height of deck above MLW is 14 feet Load capacity is 150 lbs. per square foot Two surface tracks connect with Conrail
REMARKS	Two steel storage tanks in rear, total capacity 213,670 gallons; wood frame building at rear used for offices and chemical storage.

REFERENCE NUMBER	4
FACILITY	Hi-Ho Petroleum Bridgeport Terminal Wharf
LOCATION ON WATERFRONT	Black Rock Harbor, West Branch 95 Harbor Street
OWNER	D'Addario Industries
OPERATOR	Hi-Ho Petroleum, division of D'Addario Industries
USE	Receipt of Petroleum Products
CONSTRUCTION TYPE	Timber pile, timber decked, offshore wharf; 2 timber dolphins
DESCRIPTION	Face - 30 feet Depth alongside at MLW - 13 feet Total berthing space - 200 feet Height of deck above MLW - 9 feet Load capacity - 150 pounds per square feet
REMARKS	Two 6-inch pipelines extend from wharf to 2 steel storage tanks at rear, total capacity 35,000 barrels.

REFERENCE NUMBER	5
FACILITY	Inland Fuel, Bridgeport Wharf
LOCATION ON WATERFRONT	Black Rock Harbor, East Branch 215 Admiral Street
OWNER	Inland Fuel Terminals Inc.
OPERATOR	Inland Fuel Terminals Inc.
USE	Receipt of Petroleum Products
CONSTRUCTION TYPE	Timber pile, timber decked pier extending from steel sheet pile bulkhead with solid fill
DESCRIPTION	Dimensions - 30 x 10 feet Depth alongside at MLW - 18 feet Berthing Space - 225 feet
REMARKS	3 timber breasting dolphins in line with face Two 6-inch pipelines extend from wharf to 6 steel storage tanks at rear.

REFERENCE NUMBER	6
FACILITY	Sikorsky Aircraft Wharf
LOCATION ON WATERFRONT	Black Rock Harbor South Side of East Branch
OWNER	United Technologies
OPERATOR	Not Operated
USE	Not Used
CONSTRUCTION TYPE	Steel sheet pile bulkhead with solid fill and asphalt surface
DESCRIPTION	355 foot face 8-12 foot depth alongside at MLW Load capacity - 500 psf
REMARKS	Formerly used for receipt of helicopters for repair by barge.



REFERENCE NUMBER	7
FACILITY	United Illuminating Co. Fuel Oil Dock
LOCATION ON WATERFRONT	Northerly Shore of Outer Harbor at Tongue Point
OWNER	United Illuminating Co.
OPERATOR	United Illuminating Co.
USE	Receipt of fuel oil
CONSTRUCTION TYPE	Concrete pile - concrete decked breasting platforms
DESCRIPTION	Row of two 40 by 35 and one 30 by 35 foot breasting platforms with timber catwalks and 2 concrete mooring dolphins Depth alongside at MLW - 31-37 feet Load capacity - 2000 psf
REMARKS	Two 12 and one 6 inch pipelines connect with 24 inch pipeline extending to 4 steel storage tanks at rear, total capacity 680,000 barrels. One 1500 foot portable and one 1000 foot permanent booms for oil spill containment available at wharf. Pier is lighted.

REFERENCE NUMBER	8
FACILITY	United Illuminating Co. Coal Dock
LOCATION ON WATERFRONT	Westerly Shore of Inner Harbor, Above Tongue Point
OWNER	United Illuminating Co.
OPERATOR	United Illuminating Co.
USE	Receipt of coal for powerplant consumption
CONSTRUCTION TYPE	Concrete pile, concrete decked offshore wharf
DESCRIPTION	90 by 4 foot timber approach; rows of 7 and 6 concrete breasting dolphins extend from lower and upper ends of wharf, in line with face. Depth alongside at MLW - 20 feet total berthing space 750 feet.
REMARKS	Open storage for approximately 110,000 tons of coal at rear. Pier is lighted.

REFERENCE NUMBER	9
FACILITY	United Illuminating Co. Barge Dock
LOCATION ON WATERFRONT	Westerly Shore of Inner Harbor, approximately 0.5 miles above Tongue Point
OWNER	United Illuminating Co.
OPERATOR	Not Operated
USE	Not in Use
CONSTRUCTION TYPE	Timber pile, timber-decked offshore platform
DESCRIPTION	Platform 30 by 30 feet Depth alongside at MLW - 16-18 feet Total berthing space - 260 feet
REMARKS	Pier is lighted.
REFERENCE NUMBER	10
FACILITY	Union Square Municipal Dock
LOCATION ON WATERFRONT	Westerly Shore of Inner Harbor, below Connecticut Turnpike Bridge
OWNER	City of Bridgeport
OPERATOR	Bridgeport and Port Jefferson Steamboat Co.
USE	Ferry Terminal; Mooring excursion vessels
CONSTRUCTION TYPE	Adjustable steel transfer bridge
DESCRIPTION	50 x 12 foot adjustable steel transfer bridge
REMARKS	Additional berthing available along a 480 foot timber wharf at upper side.

REFERENCE NUMBER 11

FACILITY Hoffman Fuel, Bridgeport Terminal Wharf

LOCATION ON WATERFRONT Right Bank of Pequonnock River, below East Washington Avenue Bridge  
156 East Washington Ave.

OWNER Chevron USA, Inc.

OPERATOR Hoffman Fuel, Division of Chevron USA, Inc.

USE Receipt of Petroleum Products by barge

CONSTRUCTION TYPE Steel sheet pile bulkhead, with asphalt surfaced solid fill.

DESCRIPTION Face length 290 feet  
Depth alongside at MLW 10-14 feet  
Load capacity 500 psf

REMARKS Three 8- and two 6-inch pipelines extend from wharf to 10 steel storage tanks with a total capacity of 108,500 barrels.

REFERENCE NUMBER 12

FACILITY United Illuminating Co., Steel Point Wharf

LOCATION ON WATERFRONT Easterly Shore of Inner Harbor, below Connecticut Turnpike Bridge

OWNER United Illuminating Co.

OPERATOR Not Operated

USE Not in Use

CONSTRUCTION TYPE Steel sheet pile bulkhead, solid fill with timber pile, concrete decked extension of west face

DESCRIPTION West Face - 850 feet  
South Face - 490 feet  
Height of deck above MLW - 11 feet  
Load capacity - 300 psf

REMARKS One 6-inch pipeline extends from wharf to 2 steel storage tanks at rear with a total capacity of 51,400 barrels.

REFERENCE NUMBER	13
FACILITY	Ocean Fish Co. Pier below the foot of East Main Street
LOCATION ON WATERFRONT	70 East Main Street
OWNER	Ocean Fish Co.
OPERATOR	Ocean Fish Co.
USE	Not used for waterborne commerce
CONSTRUCTION TYPE	Timber pile, timber decked pier with 200 x 4 foot float
DESCRIPTION	Dimensions - 265 x 5 feet Height of deck above MLW - 15 feet Load capacity - 150 psf Partly lighted
REMARKS	Pier supports salt water intake line for lobster- holding plant on shore at rear. Structure at outer end of pier supports suction line with 30 x 10 foot float moored at outer end; float protects suction line and is used as a work platform.

REFERENCE NUMBER	14
FACILITY	Tallmadge Brothers Pier
LOCATION ON WATERFRONT	Easterly Shore of Inner Harbor 59 Pembroke Street
OWNER	Tallmadge Brothers
OPERATOR	Tallmadge Brothers & Paul's Diesel Service
USE	Commercial Operations & Docking
CONSTRUCTION TYPE	Timber pile, timber decked pier with attached floatline
DESCRIPTION	Pier Dimensions - 252 x 31 feet Float Dimensions - 145 x 5 feet Pier load capacity - 150 psf Electrical service - AC 110/220 volts
REMARKS	Corps of Engineers Permit Number CT-BRID-84-0249

REFERENCE NUMBER 15

FACILITY Hitchcock Gas Engine Co. - West Pier

LOCATION ON WATERFRONT Easterly Shore of Inner Harbor  
40 California Street

OWNER Hitchcock Gas Engine Co.

OPERATOR Hitchcock Gas Engine Co.

USE Mooring small craft for repair

CONSTRUCTION TYPE Timber bulkhead with asphalt surfaced solid fill

DESCRIPTION Dimensions: Face - 100 feet  
Upper side - 200 feet  
Lower side - 250 feet  
Height of deck above MLW - 10 feet  
Load capacity - 150 psf

REMARKS Timber pile, steel-decked runway for  
35-ton mobile boat lift adjacent to  
upper side

REFERENCE NUMBER 16

FACILITY Hitchcock Gas Engine Co. - East Pier

LOCATION ON WATERFRONT Easterly Shore of Inner Harbor, approximately  
250 feet below foot of Pembroke Street

OWNER Hitchcock Gas Engine Co.

OPERATOR Hitchcock Gas Engine Co.

USE Mooring small craft for repair

CONSTRUCTION TYPE Timber pile, timber decked pier; inner portion  
asphalt paved

DESCRIPTION Dimensions: Face 34 feet  
Upper side - 450 feet  
Lower side - 450 feet  
Height of deck above MLW - 10 feet

REMARKS Frame shed on pier used as carpenter shed;  
shipbuilding shed located at rear. One  
400-ton marine railway located at the upper  
side. Floats form a 200 foot long pier located  
on upper side of marine railway.

REFERENCE NUMBER	17
FACILITY	Jacob Brothers Wharf
LOCATION ON WATERFRONT	Southerly side of Yellow Mill Channel 1240 Seaview Avenue
OWNER	City Ice & Coal Co.
OPERATOR	Jacob Brothers, Inc.
USE	Shipment of scrap metal
CONSTRUCTION TYPE	Steel sheet pile bulkhead with solid fill; fronted by timber fenders
DESCRIPTION	Face - 130 feet Depth alongside at MLW - 13 feet Height of deck above MLW - 9 feet
REMARKS	Two surface tracks connect with Conrail. One 30-ton diesel and three 15-ton gasoline cranes with 50 foot booms for receipt and shipment of scrap metal by barge and rail.

REFERENCE NUMBER	18
FACILITY	D'Addario Industries Bridgeport Wharf
LOCATION ON WATERFRONT	Yellow Mill Channel 1121 Seaview Avenue
OWNER	Bridgeport Concrete & Asphalt Division, D'Addario Industries
OPERATOR	Bridgeport Concrete & Asphalt
USE	Receipt of sand, gravel and stone by barge
CONSTRUCTION TYPE	Timber bulkhead with solid fill
DESCRIPTION	Face - 200 feet Total berthing space - 200 feet Depth alongside at MLW - 0-8 feet
REMARKS	One 40-ton diesel crawler crane with 70-foot boom and 2 yard bucket used to unload barges. Concrete and asphalt ready mix plants and open storage area with capacity for 150,000 tons of material located at rear.

REFERENCE NUMBER	19
FACILITY	Cilco Terminal Wharf
LOCATION ON WATERFRONT	Easterly Shore of Inner Harbor 535 Seaview Avenue
OWNER	Cilco Terminal Co.
OPERATOR	Cilco Terminal Co.
USE	Receipt and shipment of conventional general cargo in domestic and foreign trade
CONSTRUCTION TYPE	Part concrete, part timber bulkhead with solid fill; asphalt surfaced
DESCRIPTION	Bulkhead fronted by timber pile, timber decked extension Face length - 930 feet Depth alongside at MLW - 33 feet Total berthing space - 930 feet Height of deck above MLW - 13 feet
REMARKS	Four timber frame, one masonry and two steel frame transit sheds. Seven cranes with capacities ranging from 50 to 140 tons. Approximately 10 acres of paved, open storage area located at rear for lumber, scrap metal and other bulk materials.

REFERENCE NUMBER	20
FACILITY	Shell Oil Co. - Bridgeport Terminal
LOCATION ON WATERFRONT	Easterly Shore of Inner Harbor, approximately 300 feet above Pleasure Beach Bridge Eagles Nest Road
OWNER	Shell Oil Co.
OPERATOR	Shell Oil Co. & International Petroleum
USE	Receipt and shipment of petroleum products
CONSTRUCTION TYPE	Timber pile, timber decked offshore wharf
DESCRIPTION	Dimensions 190 x 30 feet Depth alongside at MLW - 35 feet Height of deck above MLW - 13 feet Load capacity - 250 psf
REMARKS	Shell Oil - Three 12-inch pipelines extend from the wharf to 8 steel storage tanks with a combined capacity of 880,000 barrels. International Petroleum - One 12-inch pipeline extends to 15 tanks with a combined capacity of 810,000 barrels.



REFERENCE NUMBER 21

FACILITY Century Resources - Bridgeport Dock

LOCATION ON WATERFRONT Left Bank of Johnson's River  
Eagles Nest Road

OWNER Century Resources

OPERATOR Century Resources

USE Receipt of petroleum products

CONSTRUCTION TYPE Timber pile, timber decked offshore wharf  
with mooring dolphins

DESCRIPTION Dimensions: Face - 30 feet  
Sides - 20 feet  
Depth alongside at MLW - 18 feet  
Height of deck above MLW - 12 feet  
Load capacity - 150 psf

REMARKS Four 6-inch pipelines extend from wharf  
to 5 steel storage tanks at rear, total  
capacity 82,000 barrels.

REFERENCE NUMBER 22

FACILITY Private Dock

LOCATION ON WATERFRONT Black Rock Harbor  
104 Seabright Avenue

OWNER K. Williams

OPERATOR K. Williams

USE

CONSTRUCTION TYPE Timber

DESCRIPTION 50 x 6 foot timber pile, timber decked pier  
with a 12 x 40 foot attached float  
Height of pier above MLW - 11 feet

REMARKS Corps of Engineers Permits  
CT-BRID-68-242 Issued 7/31/68  
CT-BRID-73-0039 Issued 1/29/73

REFERENCE NUMBER	23
FACILITY	Seaside Park Fishing Pier
LOCATION ON WATERFRONT	Black Rock Harbor
OWNER	City of Bridgeport
OPERATOR	Bridgeport Parks & Recreation Dept.
USE	Recreation/Fishing Pier
CONSTRUCTION TYPE	Timber pile, timber decked pier
DESCRIPTION	176 x 12 foot timber pile pier Height of deck above MLW - 11 feet
REMARKS	Corps of Engineers Permit CT-BRID-75-0216

REFERENCE NUMBER	24
FACILITY	Connecticut Resources Recovery Facility Bulkhead
LOCATION ON WATERFRONT	Cedar Creek
OWNER	Garrett Research & Development Co.
OPERATOR	Garrett Research & Development Co.
USE	Solid Waste Recycling
CONSTRUCTION TYPE	Steel sheet pile; solid fill
DESCRIPTION	800 lineal feet of steel sheet pile bulkhead in two sections
REMARKS	Corps of Engineers Permit CT-BRID-76-003

REFERENCE NUMBER 25  
 FACILITY Private Pier  
 LOCATION ON WATERFRONT Black Rock Harbor  
 118 Seabright Avenue  
 OWNER J. J. Spall  
 OPERATOR J. J. Spall  
 USE  
 CONSTRUCTION TYPE Wood  
 DESCRIPTION 48 x 4 foot timber pile, timber decked pier  
 4 x 20 foot ramp  
 15 x 35 foot float  
 REMARKS Corps of Engineers Permit  
 CT-BRID-61-22

REFERENCE NUMBER 26  
 FACILITY O & G Industries Bulkhead  
 LOCATION ON WATERFRONT Cedar Creek  
 260 Bostwick Avenue  
 OWNER O & G Industries  
 OPERATOR O & G Industries  
 USE Material Handling  
 CONSTRUCTION TYPE Steel sheet pile  
 DESCRIPTION 376 foot steel bulkhead constructed  
 approximately 20 feet from shore  
 REMARKS Corps of Engineers Permit  
 CT-BRID-83-0036

REFERENCE NUMBER	27
FACILITY	Bulkhead
LOCATION ON WATERFRONT	Black Rock Harbor 2 Seabright Avenue
OWNER	M. Dudas
OPERATOR	M. Dudas
USE	Marine School
CONSTRUCTION TYPE	Timber pile
DESCRIPTION	315 linear feet of bulkhead constructed parallel to an existing solid fill
REMARKS	Corps of Engineers Permit CT-BRID-81-267
REFERENCE NUMBER	28
FACILITY	Seaside Park Boat Launching Ramp
LOCATION ON WATERFRONT	Black Rock Harbor Barnum Blvd.
OWNER	City of Bridgeport
OPERATOR	City of Bridgeport
USE	Boat Launching
CONSTRUCTION TYPE	Concrete pad
DESCRIPTION	50 x 40 foot bituminous concrete ramp over a 10 inch gravel base
REMARKS	Corps of Engineers Permit CT-BRID-84-0087

REFERENCE NUMBER 29  
 FACILITY Captain's Cove Marina  
 LOCATION ON WATERFRONT Burr Creek  
 1 Bostwick Avenue  
 OWNER City of Bridgeport  
 OPERATOR K. Williams  
 USE Municipal Marina  
 CONSTRUCTION TYPE Timber  
 DESCRIPTION 9 main docks and travel lift  
 REMARKS Corps of Engineers Permit Numbers  
 CT-BRID-61-0177  
 CT-BRID-70-207  
 CT-BRID-82-0344  
 CT-BRID-83-0126  
 CT-BRID-84-0093

REFERENCE NUMBER 30  
 FACILITY Cedar Boat Ways  
 LOCATION ON WATERFRONT Black Rock Harbor  
 86 Bostwick Avenue  
 OWNER F. Gulia  
 OPERATOR F. Gulia  
 USE Marina  
 CONSTRUCTION TYPE Wood  
 DESCRIPTION Wood bulkheads, fixed pier and  
 pile anchored float system  
 REMARKS Corps of Engineers Permit  
 CT-BRID-71-119  
 Facility classified as dilapidated by CT DOT.

REFERENCE NUMBER	31
FACILITY	Pequonnock Yacht Club
LOCATION ON WATERFRONT	Bridgeport Harbor California Street
OWNER	Pequonnock Yacht Club
OPERATOR	Pequonnock Yacht Club
USE	Yacht Club/Marina
CONSTRUCTION TYPE	Timber
DESCRIPTION	Wooden bulkhead with solid fill (12 x 8 inch piles, 5 foot O/C with 4 x 12 foot sheating). Main line of floats 456 x 6 feet with a 20 x 40 foot fuel float attached to an "L" shaped line of floats adjacent to the bulkhead measuring 120 x 6 feet and 144 x 6 feet
REMARKS	Corps of Engineers Permit CT-BRID-70-0034 Club also has a small craft launching ramp.

REFERENCE NUMBER	32
FACILITY	Waterfront Park Marina (Phases I & II)
LOCATION ON WATERFRONT	Pequonnock River
OWNER	City of Bridgeport
OPERATOR	City of Bridgeport
USE	Municipal Marina & Park
CONSTRUCTION TYPE	Timber pile, timber deck; wooden floats
DESCRIPTION	<p>Phase I</p> <ul style="list-style-type: none"> <li>- 70 x 36 foot timber dock</li> <li>- 54 x 32 foot timber dock</li> <li>- 216 x 6 foot catwalk</li> <li>- 98 x 8 foot "T" dock w/ 12 x 36 head and eight 15 foot floats</li> <li>- 92 x 8 foot "L" dock w/ 8 x 20 head and three 15 foot floats</li> <li>- 26 mooring piles</li> </ul> <p>Phase II</p> <ul style="list-style-type: none"> <li>- 25 x 590 foot timber dock parallel to shore</li> <li>- 90 x 23 foot platform extension adjacent to RR Station</li> <li>- 432 x 8 foot floating dock parallel to the timber dock, having sixteen 25 x 4 foot finger floats attached</li> <li>- 125 foot walkway</li> <li>- 75 x 30 foot steel cribbed wave barrier</li> </ul>
REMARKS	<p>Corps of Engineers Permits</p> <p>CT-BRID-76-0581</p> <p>CT-BRID-78-0434</p> <p>CT-BRID-79-0322</p>

REFERENCE NUMBER	33
FACILITY	Riverside Marine
LOCATION ON WATERFRONT	Yellow Mill Pond 520 Stratford Avenue
OWNER	Sandy McElwee
OPERATOR	Sandy McElwee
USE	Marina Operations
CONSTRUCTION TYPE	Timber
DESCRIPTION	<ul style="list-style-type: none"> <li>- 255 x 6 foot wooden walkway float with 4 ramps</li> <li>- 80 x 5 foot float adjacent to bulkhead</li> <li>- four main docking floats ranging in length from 160 to 180 feet with 6 foot widths</li> <li>- forty two 30 x 2 foot finger floats</li> <li>- forty five 20 x 2 foot finger floats</li> <li>-60 guide piles</li> </ul>
REMARKS	Corps of Engineers Permit CT-BRID-77-0478

REFERENCE NUMBER	34
FACILITY	Pipeline Dolphins
LOCATION ON WATERFRONT	Johnson's River 75 feet easterly from Highway Swing Bridge to Pleasure Beach
OWNER	City of Bridgeport
OPERATOR	City of Bridgeport
USE	Pipeline Protection
CONSTRUCTION TYPE	Timber pile/wire wrap
DESCRIPTION	Two 6 pile dolphins
REMARKS	Corps of Engineers Permit CT-BRID-59-0155



REFERENCE NUMBER 35

FACILITY Miamogue Yacht Club

LOCATION ON WATERFRONT Johnson's River  
144 Seaview Avenue

OWNER Miamogue Yacht Club

OPERATOR Miamogue Yacht Club

USE Yacht Club

CONSTRUCTION TYPE Timber

DESCRIPTION Approximately 700 feet of main floats with  
6 foot width and 36 finger floats 20 x 2 feet  
and 8 finger floats 30 x 2 feet; numerous  
guide piles

REMARKS Corps of Engineers Permit  
CT-BRID-76-245

REFERENCE NUMBER 36

FACILITY East End Yacht Club

LOCATION ON WATERFRONT Johnson's River  
104 Bay Street

OWNER East End Yacht Club

OPERATOR East End Yacht Club

USE Yacht Club

CONSTRUCTION TYPE Timber

DESCRIPTION Floating dock system. Approximately 1350 linear  
feet of 6 foot wide main floats and 1000 linear  
feet 2 foot wide finger floats and associated  
guide piles

REMARKS Corps of Engineers Permit  
CT-BRID-78-0461  
CT-BRID-76-0345  
CT-BRID-83-0178

REFERENCE NUMBER	37
FACILITY	Pleasure Beach Piers, Bulkhead and Seawall
LOCATION ON WATERFRONT	Pleasure Beach
OWNER	City of Bridgeport
OPERATOR	City of Bridgeport
USE	Recreation and Shore Protection
CONSTRUCTION TYPE	Wood; concrete
DESCRIPTION	Wood pile and timber fishing pier; timber bulkheads; concrete seawall adjacent to Lewis Gut
REMARKS	Existing structures to be repaired and upgraded.
REFERENCE NUMBER	38
FACILITY	Parsell's/Desrosier's Marina
LOCATION ON WATERFRONT	Bridgeport Harbor 421-451 Seaview Avenue
OWNER	
OPERATOR	R. Desrosier
USE	Marina
CONSTRUCTION TYPE	Wood
DESCRIPTION	Bottom anchored 7 x 200 floating dock attached to permanently moored barge and 3 floating docks with guide dolphins adjacent to Newfield Road

REFERENCE NUMBER	39
FACILITY	Bill's Boat Basin
LOCATION ON WATERFRONT	Bridgeport Harbor 365 Seaview Avenue
OWNER	J. Schultz
OPERATOR	J. Schultz
USE	Marina
CONSTRUCTION TYPE	Wood
DESCRIPTION	Floating dock with guide piles Approximately 350 feet long - slips accomodate 30 vessels
REFERENCE NUMBER	40
FACILITY	Speer's Boat Yard
LOCATION ON WATERFRONT	Johnson's River 2 Webster Street
OWNER	E. Speer
OPERATOR	E. Speer
USE	Storage & Repair
CONSTRUCTION TYPE	Wood
DESCRIPTION	Bulkhead and small dock
REMARKS	Boatyard in general disrepair. Dock and bulkheads are dilapidated.

REFERENCE  
NUMBER

DEBRIS/ABANDONED STRUCTURES

41	Abandoned Barge "JLS #1"
42	Derelict Piling (Approximately 50 (12 inch diameter))
43	Wooden Pier - Dilapidated
44	Iron Discharge Pipe (Broken)
45	Wooden Pier - Dilapidated
46	Wooden Pier - Dilapidated
47	Wooden Pilings (Approximately 100)
48	Two Dilapidated Wood Pile Bulkheads
49	Wooden Bulkhead - Dilapidated
50	Bridgeport Brass - 4 Abandoned Mooring Dolphins
51	Bridgeport Brass - Wooden Bulkhead - Dilapidated - Abandoned Mooring Dolphins
52	Abandoned Piles (2 Rows of Approximately 25 piles)
53	Abandoned Piles
54	Three Derelict Wooden Barges

## OIL HANDLING

Eight of the waterfront facilities at Bridgeport are equipped to receive and/or ship petroleum products.

The oil handling table gives information on facilities equipped to handle petroleum products; details are given in the Detailed List of Port Facility & Structures under the reference numbers indicated. Tank storage at recreational craft service stations is not included.

## OPEN STORAGE

The Cilco Terminal Co., Inc. maintains approximately 10 acres of paved, open storage area at the rear of Ref. No. 19, and approximately 6 acres of paved, open storage area at the rear of Ref. No. 20.

Open storage areas at other waterfront facilities are used in connection with the operational requirements of the various operators; these areas are not usually available for public use.

# OIL HANDLING

Ref. No.	Operator	Usable Berthing Space (Feet)	Depth Alongside MLW (Feet)	Storage Number	Tanks Capacity (Barrels)
21	Century Resources Co., Inc.	225	18	5	82,000
2	Connecticut Petroleum Wholesale	455	12-14	5	36,650
4	Hi-Ho Petroleum, division of D'Addario Industries	200	13	2	35,000
11	Hoffman Fuel District, division of Chevron U.S.A., Inc.	330	10-14	10	108,500
5	Inland Fuel Terminals, Inc.	225	18	6	46,100
20	International Petroleum Terminals Co.	700	35	15	810,000
20	Shell Oil Co.	700	35	8	880,000
7(1)	United Illuminating Co., The	900	31-37	4	680,000
12(1) (2)	do	850-350	16-30	2	51,400
TOTAL		--	--	57	2,729,650

(1) Fuel oil for plant consumption.

(2) Not in use at time of survey (1983).

## HOISTING EQUIPMENT

General cargo at Bridgeport is usually handled to and from vessels by ship's tackle. However, hoisting equipment is available to the public for making heavy lifts at the waterfront facilities of the Cilco Terminal Wharf (Ref. No. 19). The company maintains the following equipment for this purpose:

One 140-ton, diesel, mobile crane with 120-foot boom.

Six 50- to 100-ton, diesel, crawler cranes with booms ranging from 60 to 100 feet

All cranes are equipped with 3- to 6-cubic yard grab buckets and/or 48- to 83-inch electric magnets.

Other cranes, derricks, and special-handling equipment on other waterfront facilities are generally for the sole use of the operating companies and are described in the Detailed List of Port Facilities & Structures.

Blakeslee, Arpaia, Chapman, Inc., 72 Middletown Avenue, New Haven, Connecticut 06513, maintains floating cranes and derricks based at the Port of New Haven. These cranes, although used primarily for marine construction, are available to the public for making heavy lifts at shipside.

## MARINE REPAIR PLANTS AND DRYDOCKING FACILITIES

The Hitchcock Gas Engine Co. (Ref. Nos. 15 and 16) owns and operates a waterfront marine repair plant on the east side of the Inner Harbor near the foot of Pembroke Street. The plant is equipped to build and make above- and below-waterline repairs to fiberglass, wooden, and steel hulls of fishing boats, tugs, and recreational craft.

The company maintains a 400-ton-capacity, marine railway which can handle vessels up to 120 feet in length; a shipbuilding shed; one 10-ton, diesel, mobile crane with 50-foot boom; machine, carpenter, and diesel engine repair shops; and portable electric and gas welding units. The marine railway has three cradles, each 33 feet wide; one is 85, one 50, and one 32 feet in length.

Facilities are not available at the port for making major repairs or for drydocking large, deep-draft vessels; however, such facilities are available at Newport, Rhode Island, and New London (Groton), Connecticut.

Additional facilities for performing major repairs are located at the Port of New York, NY and NJ.

## FLOATING EQUIPMENT

Spentonbush Red Star Towing Co., Inc., operating out of New Haven, Connecticut, provides towing, docking, undocking, and shifting services at the Port of Bridgeport.

## RAIL LINES

The Consolidated Rail Corp. (Conrail) provides rail service to the Port of Bridgeport, Connecticut.

## REPORT UTILITY AND DISTRIBUTION

This report presents an accurate description of coastal and near-shore structures as verified by a joint Department of Environmental Protection/Corps of Engineers field inspection conducted in August 1985 and provides municipal, state and Federal officials and planners with a comprehensive source of information on the location of structures, facilities and debris within Bridgeport Harbor.

Copies of this report are being provided to the following agencies:

City of Bridgeport - Planning Department

Connecticut Department of Environmental Protection

- Coastal Area Management Unit
- Water Resources Unit

U.S. Army, Corps of Engineers, New England Division

- Planning Division
- Operations Division